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Editor Harry C. Gatos, Cambridge, MA

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G. Comsa, S. Kawaji, R.F. Willis

Master Index to Volumes 181–190

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Excited-State Spectroscopy in Solids

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The purpose of this course was to review many different aspects of the transient processes related to the excitation of solids. The topics covered include the excitation of electrons and phonons, the energy-transfer and the relaxation. The materials investigated are generally insulating crystals, but the last part of the book deals with less common systems like, fractals, large clusters and biological systems such as the living cell.

The theoretical background and the detailed description of the most recent experimental techniques should be of interest to both theoreticians and experimentalists, graduate students and professional physicists and chemists alike.

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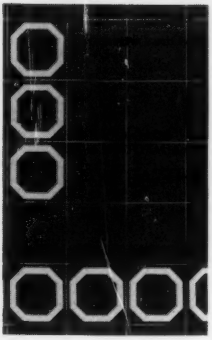
Handbook on the Physics and Chemistry of Rare Earths, Volume 9



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As in previous volumes in the series, this volume continues the coverage of a wide spectrum of topics.
Recently it has been said that the rare earth elements are destined to play an even greater role in our "high-tech" society in the future than they have in the past. This judgement is based upon the trend of increasing applications resulting from the electronic structures of these materials that lead to their unusual optical, magnetic, electrical and chemical properties so adaptable to the demands now being placed on materials. Four chapters in this tradition comprise the contents of this volume.

The development of lasers containing rare earth species sparked an interest in glasses containing these elements. Reisfeld and Jørgensen discuss excited-state phenomena in vitreous rare earth-containing substances. The description of the chemistry and crystal chemistry of complex inorganic compounds of the rare earths are continued by Niinistö and Leskelä from the previous volume. Here they consider the phosphates, arsenates, selenates and selenites, oxohalogen compounds and vanadates. Encapsulation and transport of charged hydrophilic species from an aqueous medium into a hydrophobic phase are promoted by ionophores. The properties and applications of rare earth complexes with synthetic ionophores are described by Bünzli. Finally, Shen and Ouyang review their own work and that of others in the application of rare earth coordination catalysts in stereospecific polymerization. These Ziegler-Natta type catalysts provide tools for, among other things, the design of electrically conducting polymers.

Contents: Preface. Contents of volumes 1-8. Excited state phenomena in vitreous materials *(R. Reisfeld and C.K. Jørgensen)*. Inorganic complex compounds II *(L. Niinistö and M. Leskelä)*. Complexes with synthetic ionophores *(J.-C. Bünzli)*. Rare earth coordination catalysts in stereospecific polymerization *(Zhiquan Shen and Jun Ouyang)*. Errata. Subject Index.

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[3] T.B. Grimley, in: The Nature of the Surface Chemical Bond, Eds. T.N. Rhodin and G. Ertl (North-Holland, Amsterdam, 1979) p. 1.
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